

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

North Fork Cuivre River

Water Body ID: 0170

Water Body Segment at a Glance:

Counties: Pike and Lincoln
Nearby Cities: Bowling Green
Length: 10 miles
Pollutants: Fecal coliform bacteria
Source: Rural nonpoint sources



State Map Showing Location of Watershed

Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. North Fork Cuivre River is impaired due to exceedances of state water quality criteria that protect recreational designated uses.

Designated uses of North Fork Cuivre River*

- Warm Water Habitat (WWH)
- Whole Body Contact Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

* In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Uses that are impaired

- Whole Body Contact Recreation Category B (WBC-B)

Criteria that apply

Numeric bacteria criteria for the protection of recreational uses are found in 10 CSR 20-7.031(5)(C) and Table A. For category B waters, *E. coli* counts, measured as a geometric mean, shall not exceed 206 counts/100mL of water “during the recreational season.” The state’s recreational season is defined in this section of the rule as being from April 1 to October 31.

A stream is judged as impaired by bacteria if the water quality criterion is exceeded in any of the last three years for which there is adequate data (a minimum of five samples taken during the recreational season). Adequate *E. coli* data is not currently available for the North Fork Cuivre River. However, the U.S. Geological Survey collected fecal coliform bacteria data in the North Fork Cuivre River in 2002 (Table 1). The geometric mean of these data was 248 counts/100mL. Since the department has no *E. coli* data, U.S. Environmental Protection Agency relied on the state’s former fecal coliform criteria for Whole Body Contact Recreation of 200 counts/100mL.

Table 1. Fecal Coliform Data for North Fork Cuivre River

Site	Site Name	Year	Mo	Day	FC
2	N. Fk. Cuivre R. @CR 325	2002	7	2	125
1	N. Fk. Cuivre R. @Hwy 161	2002	7	2	210
2	N. Fk. Cuivre R. @CR 325	2002	7	2	125
1	N. Fk. Cuivre R. @Hwy 161	2002	8	30	120
2	N. Fk. Cuivre R. @CR 325	2002	8	30	900
1	N. Fk. Cuivre R. @Hwy 161	2002	7	23	440
2	N. Fk. Cuivre R. @CR 325	2002	7	23	440
1	N. Fk. Cuivre R. @Hwy 161	2002	9	4	100
2	N. Fk. Cuivre R. @CR 325	2002	9	4	520
Geomean:					248

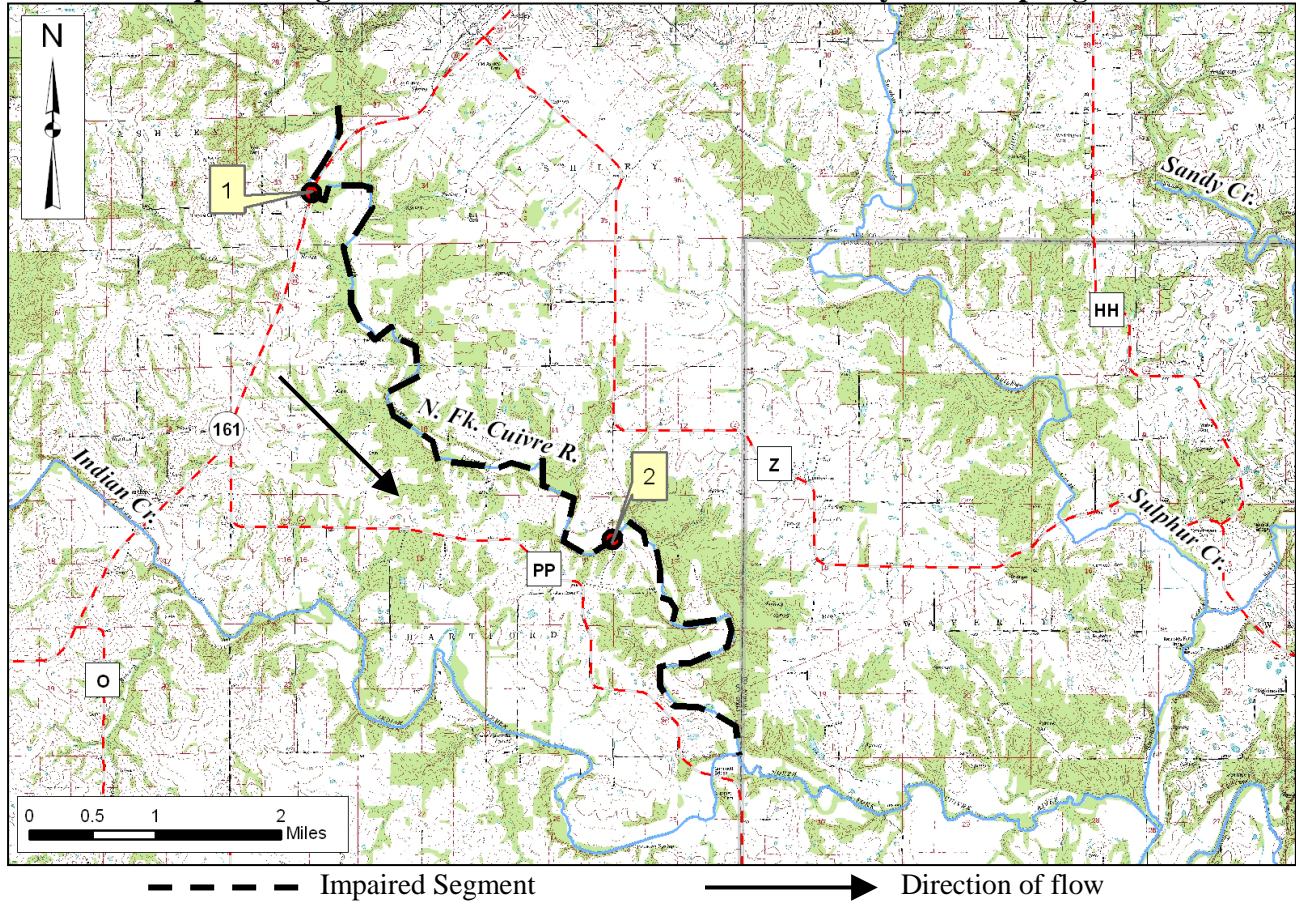
TMDL for North Fork Cuivre River

The North Fork Cuivre River TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the North Fork Cuivre River TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

For more information call or write:

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email: TMDL@dnr.mo.gov
Program home page: dnr.mo.gov/env/wpp/index.html

Map showing North Fork Cuivre River in Pike County and sampling sites



Sample Sites

- 1 – North Fork Cuivre River at State Highway 161
- 2 – North Fork Cuivre River at County Road 325